

Numerische Mathematik

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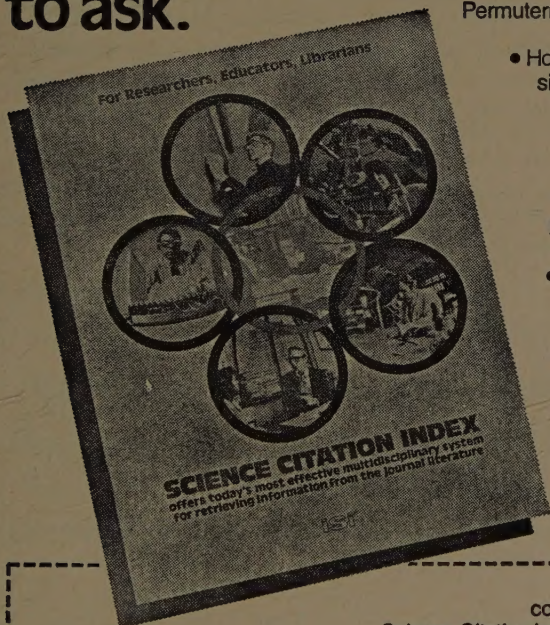
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Revised Report on the Algorithmic Language ALGOL 68

Editors: A. van Wijngaarden, B. J. Mailloux, J. E. L. Peck,
C. H. A. Koster, M. Sintzoff, C. H. Lindsey,
L. G. L. T. Meertens, R. G. Fisker

II, 236 pages. 1976.

DM 24,—; US \$9.90 ISBN 3-540-07592-5

Contents: Acknowledgements. Introduction. — Preliminary Definitions: Language and Metalanguage. The Computer and the Program. — Fundamental Constructions: Clauses. Declarations, Declarers and Indicators. Units. — Context Dependence: Coercion. Modes and Nests. — Elaboration-Independent Constructions: Denotations. Tokens and Symbols. — Environment and Examples: Standard Environment. Examples. Glossaries.

This present revision should be the “final definition of the language ALGOL 68” and it is hoped that it will be possible for implementations at present on preparation to be brought into line with this standard.

An Optimized Translation Process and Its Application to ALGOL 68

By P. Branquart, J.-P. Cardinael, J. Lewi, J.-P. Delescaille,
M. Vanbegin

IX, 334 pages. 1976. (Lecture Notes in Computer Science,
Vol. 38)

DM 30,—; US \$12.30 ISBN 3-540-07545-3

The results reported in this volume, signifying research in the field of compiler methodology, is directly based on an actual compiler written by the authors, where the computer language ALGOL 68 is used as a support to explain and develop compiling principles and techniques. The authors describe a translation process which generates efficient code while remaining machine independent.

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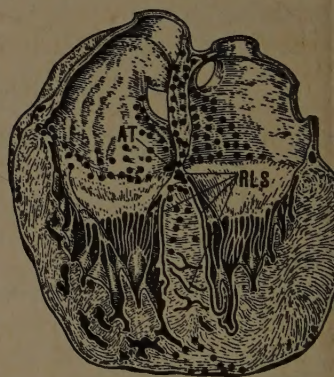
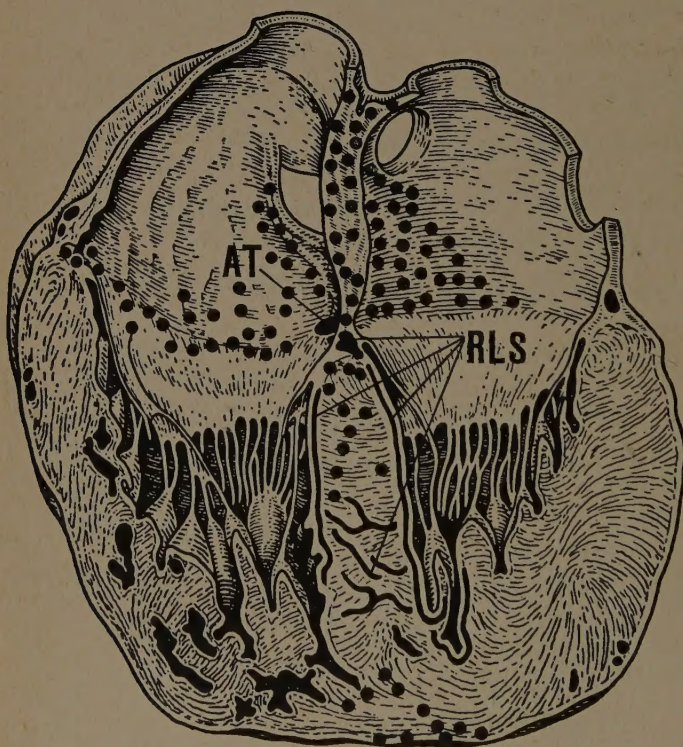
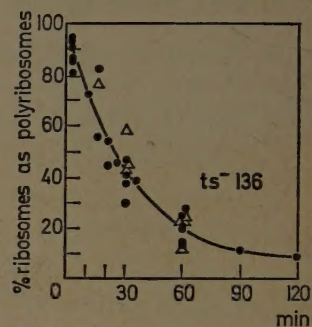
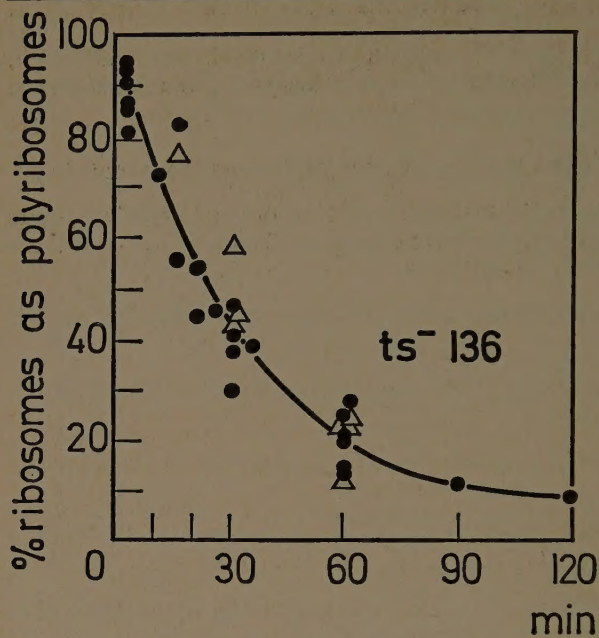
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1234567890
(!:"'+=,x?%)

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
(!:"'+=,x?%)

Some more examples see overleaf



Examples showing the effect of reduction $\times \frac{1}{2}$